

# FMB230

WATERPROOF GPRS/GNSS TRACKER WITH FLEXIBLE INPUTS CONFIGURATION

Product page



## IP67 CASING

Reliable tracking in harsh conditions

## 2G NETWORK

Quad band cellular connectivity with global coverage

## NEGATIVE INPUT

Allows easier installation of accessories

## IMPULSE INPUTS

Suitable for fuel flow meters data reading



AGRICULTURE



CONSTRUCTION & MINING



WATER TRANSPORT



PUBLIC SERVICES



HEAVY DUTY TRANSPORT

FMB230 is WATER and DUST resistant tracker with internal GNSS, GSM antennas, configurable digital, analogue inputs and digital outputs, negative input, impulse inputs, Bluetooth connectivity and backup battery. FMB230 is developed on the existing Teltonika platform, therefore it keeps all of the functionalities from FMB130 with an additional IP67 resistance to dust and water. It can be mounted inside and outside of a vehicle without worries that high pressured water, mud or dusty environment will impact its operation or performance quality. This is particularly relevant for the industries where harsh conditions exist, such as agriculture, construction and mining, and more.



**Module**

Name	Teltonika TM2500
Technology	2G(GSM/GPRS)/GNSS/BLUETOOTH

**GNSS**

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBm
Position Accuracy	< 2.5 CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

**Cellular**

Technology	GSM
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz
Data transfer	GPRS Multi-Slot Class 12 (up to 240 kbps), GPRS Mobile Station Class B
Data support	SMS (text/data)

**Power**

Input voltage range	10 - 30V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
Internal fuse	3 A, 125 V
Power consumption	At 12V < 2.5 mA (Ultra Deep Sleep) At 12V < 5 mA (Deep Sleep) At 12V < 5.5 mA (Online Deep Sleep) At 12V < 18.5 mA (GPS Sleep) At 12V < 34 mA (nominal with no load)

**Bluetooth**

Specif cation	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

**Physical specif cation**

Dimensions	70,5 x 67,0 x 25,6 mm (L x W x H) 85,0 x 67,0 x 25,6 mm (L x W x H) (length with connector socket)
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## Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating temperature (with battery)	-20 °C to +40 °C
Storage temperature (with battery)	-20 °C to +45 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP67
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

## Interface

Digital Inputs	3
Negative Inputs	1 (Digital Input 2)
Impulse Inputs	2 (Digital Input 1, Digital Input 2)
Digital Outputs	3
Analog Inputs	2
CAN Adapter Inputs	1
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM + eSIM
Memory	128MB internal flash memory

## Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)

## Certification & Approvals \*

Regulatory	CE-RED, E-mark, Reach, RoHS, Anatel
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\* in progress

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